CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/W.No.02/LR/CSR-01/723b/CEMENT/2014-15 Date: 05.01.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. L. Ravichandra No. 104, 3rd Cross, 3rd Main, Muneshwara Block, Mahalakshmipuram, Bangalore - 86.
*NAME OF THE WORK	:	Providing and fixing steel girders at Pavani Apartment roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YSD/PR/343/2014-15 Dated: 02.01.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.01.2015
PERIOD OF TESTING	:	02.01.2015 to 05.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- The results indicated above are based on the tests carried out on the samples received in the laboratory.
- Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No: CTCE/BBMP/W.No.02/LR/CSR-01/723b/SAND-Gradation/2014-15 : 05.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* Agency : **Mr. L. Ravichandra**
No. 104, 3rd Cross, 3rd Main, Muneshwara Block, Mahalakshmipuram, Bangalore - 86.

* Name of Work : Providing and fixing steel girders at Pavani Aparment roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/343/2014-15 Dated: 02.01.2015

Technical Reference : IS : 2386 Part I - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.01.2015

Date of Testing : 05.01.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.10	90-100	90-100	90-100	95-100
2.36	77.80	60-95	75-100	85-100	95-100
1.18	58.60	30-70	55-90	75-100	90-100
600 Micron	37.20	15-34	35-59	60-79	80-100
300 Micron	13.70	5-20	8-30	12-40	15-50
150 Micron	2.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No : CTCE/BBMP/W No 02/EE/CSR-01/723b/AGG/GR/2014-15 : 06.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Ravichandra** No. 104, 3rd Cross, 3rd Main, Muneshwara Block, Mahalakshmipuram, Bangalore - 86.
* Name of Work	: Providing and fixing steel girders at Pavani Apartment roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/YSD/PR/343/2014-15 Dated: 02.01.2015
Technical Reference	: IS : 2386 Part I -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 02.01.2015
Date of Testing	: 06.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single sized
80	100	100	-
63	100	-	100
40	96.72	95-100	85-100
20	30.01	30-70	0-20
10	17.36	10-35	0-5
4.75	1.53	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No: CTCE/BBMP/W.No.02/LR/CSR-01/723b/AGG/GR/2014-15 : 06.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Mr. L. Ravichandra No. 104, 3rd Cross, 3rd Main, Muneshwara Block, Mahalakshmipuram, Bangalore - 86.
* Name of Work	: Providing and fixing steel girders at Pavani Apartment roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/YSD/PR/343/2014-15 Dated: 02.01.2015
Technical Reference	: IS : 2386 Part I -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 02.01.2015
Date of Testing	: 06.01.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.62	95-100	85-100
10	30.74	25-55	0-20
4.75	3.26	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No: CTCE/BBMP/WNo.02/LR/ISMB/2014-15

12.01.2015

TEST REPORT ON STRUCTURAL STEEL

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Ravichandra**
No. 104, 3rd Cross, 3rd Main, Muneshwara Block, Mahalakshmipuram, Bangalore - 86.

Name of work : Providing and fixing steel girders at Pavani Apartment roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/343/2014-15 Dated: 02.01.2015

Samples ID : Samples Supplied By Agency

Specimen : ISMB

Technical Reference : IS 808:1989

Sl.No	Description	Result	Tolerence as per IS 1852 : 1985
1	Depth of Section	200 mm	+ 3 mm - 2 mm
2	Width of Top Flange	100.1 mm	± 2 mm
3	Width of Bottom Flange	100.1 mm	± 2 mm
4	Equal Half Centre of Web	50.05 mm	50 ± 3 mm
5	Weight / m	24.28 Kg	24.2 ± 0.1 Kg

The Results relate only to the items tested

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Job No: CTCE/BBMP/WNo.02/LR/MS Plate/2014-15

12.01.2015

TEST REPORT ON M.S. PLATE

Client : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Ravichandra**
No. 104, 3rd Cross, 3rd Main, Muneshwara Block, Mahalakshmipuram, Bangalore – 86.

Name of work : Providing and fixing steel girders at Pavani Apartment roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/343/2014-15 Dated: 02.01.2015

Samples ID : Samples Supplied By Agency

Specimen : MS Plate

Technical Reference : IS 1730:1989

Sl.No	Description	Result	Tollerence as per IS 1582:1985
1	Length	400 mm	+ 10 mm - 0.0 mm
2	Width	400 mm	+ 10 mm - 0.0 mm
3	Thickness	6.01 mm	+ 7.5 % - 5.0 %
4	Weight / Sqm	47.58 Kg	-

The Results relate only to the items tested

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